INEOS PP R35C-03

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

General Information

Product Description

R35C-03 is a high flow rate, ultra-high clarity, lubricated and antistatic random copolymer designed for high-speed injection molding of medium to thin walled parts requiring excellent clarity, fast cycle times and ease of de-nesting. Finished parts produced with R35C-03 will exhibit a bluish hue, giving a look of enhanced clarity. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic	• Lubricant	
Features	• Antistatic • Fast Molding Cycle • Food Contact Acceptable	• High Clarity • High Flow • Lubricated	• Random Copolymer
Uses	• Thin-walled Parts		
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.905		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	4260	psi	ASTM D638
Tensile Strength [2] (Break, Injection Molded)	2410	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	14	%	ASTM D638
Tensile Elongation [2] (Break, Injection Molded)	> 400	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	158000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	1.1	ft·lb/in	ASTM D256
Notched Izod Impact (Area) (73°F, Injection Molded)	2.74	ft·lb/in²	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	82		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	172	°F	
Vicat Softening Temperature	264	°F	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, Injection Molded)	96		ASTM D2457
Haze [3] (50.0 mil, Injection Molded)	7.00	%	ASTM D1003

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Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 23°C